

THE INSECT PEST SITUATION IN JUNE, 1924

Apple Sucker—Copper Injury.

In Bulletin No. 10 of the N. S. Department of Agriculture, (March, 1923), the writer called attention to the action of Bordeaux sprays or dusts in aggravating the injury caused by the European Apple Sucker which in itself may be of little or no importance. This injury consists in a pronounced yellowing or even burning of the leaves followed by a heavy drop in severe cases. A more complete account of this injury, with the results of experiments, appeared in "Scientific Agriculture" for January, 1923. At the annual meeting of the N. S. Fruit Growers' Association in Wolfville January 1924, the writer, in speaking of the Apple Sucker, made the following statement:

"The most serious feature of the insect's work seems to be its influence in rendering affected foliage susceptible to Bordeaux injury, a fact which may force the use of sulphur spray or dusts in certain cases." A combination of circumstances has this year tended to aggravate the type of injury described above. The rapid spread of the Apple Sucker has now brought it into prominence in districts where it was before unknown and the dry weather in the early part of the season tended not only to accentuate the direct damage from the insect, but also enabled copper sprays and dusts to adhere to the foliage until the heavy rain of June 15th, when the undissolved material was brought into solution and, entering the feeding punctures of the insects, caused the damage to which we have referred. Any form of Bordeaux, either dust or liquid, will apparently cause damage where suckers are exceptionally numerous. It makes little difference whether the material has been mixed with arsenate of lead or arsenate of lime as the same damage will result in either case. Bordeaux and Paris green is a particularly dangerous combination—that is, it is dangerous to the trees not the insects—but even orating the poison altogether will not prevent the injury. All varieties are subject, but probably the Ben Davis shows most injury, partly because it is likely to be heavily infested and partly because it is particularly susceptible to this type of injury. Trees that have been treated with sulphur, lime sulphur or wettable sulphur show an entire absence of the described injury under identical conditions, as do also orchards where the Sucker has been destroyed by the use of Nicotine, even though the copper fungicides have been freely used. Neither is it in evidence where the Sucker does not occur. While the foregoing appears to be true, growers should be cautioned against attributing every failure of the fruit to "set" to the effect of the material used in spraying or dusting their orchards. A failure to "set" or even a patchy set is just as characteristic this season in districts where the Apple Sucker is not a factor or in orchards where sulphur sprays or dusts have been used. Furthermore, where the insect has been controlled by means of Nicotine dusts or sprays, Bordeaux sprays can be safely used. It should be borne in mind that except in dry seasons and in exceptionally heavy infestations the Apple Sucker is a pest of minor importance. It should also be clearly understood that the Bordeaux sprays or dusts used in the Valley are as safe materials as can be used on trees under ordinary conditions. It is the combination of dry weather, abundance of apple sucker and copper fungicides that cause the damage. In districts where the insect is not yet a factor, there need be no modification of present practices, but where it is now abundant an application of a sulphur fungicide may be substituted at the "blossom pink" period as is already recommended for the "calyx" period. For the earlier and the later applications of use of copper fungicides can be safely continued by all who desire to use them.

**Nicotine Dusts.** Those who follow the dusting method will be interested to know that a special nicotine dust has now been shown to be satisfactory for the treatment of sucking insects if applied at the right time. This right time is just as soon as possible after the flower stalks have spread wide apart, or, just as late as possible before the trees come into bloom. It will not work, however, if applied too late. After an apple sucker has become half grown or more it can only be killed with a hammer or similar implement. Apple suckers can also be controlled any time after the flower stalks spread apart, but, unlike the green apple bug, which drop from the trees immediately they are treated, they may, for a day or two, appear to be unharmed by the material. At the end of the third day, however, if enough material (2 or 3 lbs. per tree), has been used, and if it has been applied at the right time, the insect will be seen to shrivel up and die.

**Apple Scab or Spot.** Considerable spot is showing up on the leaves of susceptible varieties like Stark, Gravenstein, etc. Those who missed the early application are likely to have considerable trouble with spot.

**Bud Moth.** Many complaints of severe bud moth injury have been heard this season. In most cases this severe injury is the result of the neglect of the early application. Where much severe injury is experienced, the use of materials with an extra strong arsenic content in the first spray is indicated.

W. H. Brittain, Provincial Entomologist.

Sign in London, Ohio: "Drive slow and see our town. Drive fast and see our jail."

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BIBLE THOUGHT FOR TODAY

JULY 11 THOU SHALT LOVE THE LORD thy God with all thy heart, and with all thy soul, and with all thy strength, and with all thy mind; and thy neighbour as thyself.—Luke 10:27.

JULY 12 HE THAT LOVETH SILVER shall not be satisfied with silver; nor be that loveth abundance with increase; this is also vanity. When goods increase, they are increased that eat them; and what good is there to the owners thereof, saving the beholding of them with their eyes?—Ecclesiastes 6:10, 11.

JULY 13 OF A TRUTH I perceive that God is no respecter of persons; but in every nation he that feareth him, and worketh righteousness, is accepted with him.—Acts 10:34, 35.

JULY 14 LET THIS MIND BE IN YOU, which was also in Christ Jesus. Let nothing be done through strife or vainglory; but in lowliness of mind let each esteem other better than themselves.—Philippians 2: 5, 3.

JULY 15 FOR GOD SO LOVED THE WORLD, that he gave his only begotten Son, that whosoever believeth in him should not perish, but have everlasting life.—John 3: 16.

JULY 16 BLESS THE LORD, O my soul, and forget not all his benefits; who forgiveth all thine iniquities; who healeth all thy diseases; who redeemeth thy life from destruction.—Psalm 103:2-4.

JULY 17 PEACE I LEAVE WITH YOU, my peace I give unto you: not as the world giveth, give I unto you. Let not your heart be troubled, neither let it be afraid.—John 14:27.

PICNIC DAINTIES

**Cream Cookies:** Two eggs, one cup sweet cream, one cup sugar, three cups flour, three teaspoons baking powder, one teaspoon salt, nutmeg. Beat eggs well with a Dover beater. Add sugar and continue beating. Add cream and beat well. Mix and sift flour, salt and baking powder and stir into first mixture. Add nutmeg. Drop from a spoon onto a well-buttered and floured cookie sheet. Flatten with spoon to prevent cookies from being too thick when baked. Sprinkle lightly with sugar and drop a raisin in the center of each cook-

ic. Bake twelve minutes in a moderately hot oven. As these cookies need no butter they are not expensive. If sour cream is used stir one-fourth teaspoon soda into cream. Use the same amount of baking powder as with sweet cream.

**Nut Bread:** Two cups sour cream, two-thirds cup sugar, two cups white flour, one teaspoon salt, three cups Graham flour, one teaspoon soda, one cup nut meats, two teaspoons baking powder. Let rise one hour, and bake.

**Fried Pies:** These are on the order of old-fashioned "turnovers" and are especially good to carry for an automobile lunch or picnic. The dough is made like that of baking powder biscuits, rolled to the thickness of one-eighth of an inch, and cut with a small round cutter. On half of each circle put old-fashioned apple sauce baked in the oven until dark red, wet the edge and turn the other half over the apple, pinching the edge firmly together. Fry like doughnuts in deep hot fat. Drain carefully on paper.

**Prune, Peanut Butter Sandwiches:** Wash prunes well. Pour boiling water over prunes and let stand 10 minutes. Dip in cold water and try on a clean, soft cloth. Cut from stones and put through food chopper. To one-half cup chopped prunes add four tablespoons peanut butter. Work smooth and put between thin slices of bread and butter.

**Nut and Cheese Sandwiches:** Four tablespoons cream, one-half cup cottage cheese, one cup finely chopped nuts, one-half teaspoon salt, one-quarter teaspoon paprika. Whip cream. Beat in cheese and nuts. Add salt and paprika and spread on brown bread and butter.

**Chocolate Cake With Sour Milk:** One cupful of sour milk, one cupful of sugar, four tablespoons of butter, one and two-thirds cupfuls flour, one teaspoonful of soda, one egg and two squares of chocolate. Heat the chocolate, stirring it in with the butter, half a cup of sugar and the milk until the chocolate is melted. Add the egg (well beaten), flour, soda and the remainder of the sugar. Mix well.

FIRST TREATY MADE BY CANADIAN GOVERNMENT

OTTAWA, July 3.—A treaty extending the most favored nation treatment between Canada and Belgium was signed at seven o'clock Wednesday evening at Laurier House, Ottawa, by Hon. J. A. Robb and Hon. Dr. H. B. Land, on behalf of Canada, and Baron De Selys, consul general for Belgium, in the presence of the Prime Minister. This is the first treaty entered into by the Canadian government and signed in Canada.

Full powers from His Majesty, the King, to sign the treaty on behalf of Canada, were received a few days ago

by Hon. Mr. Robb and the Hon. Dr. Bland.

Canada extends to Belgium the benefit of its intermediate tariff and receives from Belgium most favored nation treatment which is a wide variation from its regular tariff, which is rather high.

Canadian imports from Belgium for the year ending March were \$5,340,875, and exports to Belgium \$17,452,442. Our principal exports were grains (\$14,000,000), automobiles (\$200,000), tires (\$108,000), canned salmon (\$400,000), asbestos (\$400,000), raw tobacco, implements, butter and cheese. Among the imports were considerable quantities of glass, of which the importation will not prove injurious to our manufacturers, as the duty under the intermediate and general tariffs is the same. It is understood that negotiations are also under way for a somewhat similar treaty with the Netherlands.

BOTH WERE WRECKED

Two battered old wrecks were sitting on a bench on the common when one remarked: "I'm a man who never took advice from anybody." "Shake, brother," said the other, "I'm a man who followed everybody's advice."

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The Toy Canoe



THE TOYMAKER AND HIS CARVING IS A PLANT OF VILLAGE GROWTH.

When at Christmas time we turn into a toy store or in a large department store toward the toy counter, we are apt to see in our minds' eye only the toy and the child. Some of us see and feel, ourselves. And in spirit go back to the days when toys were to us, as they are to children, the embodiment of the imagination. The tangible form of our dreams! Sight of the toys, the touch of them, is a magic wand restoring our lost childhood. And so we really end in buying the thing that we like, the thing that takes our fancy. That is, if we have a choice, and are not forced by circumstances of limited stock or limited means to take what we can get.

But the toy reaches further back than this. Behind each is the toymaker. The man or woman whose deft fingers shape the thing of art and life out of unpromising and wholly unsuggestive raw material. Thus Canada has men, art-craftsmen, who see in the forest-log latent figures of saints, windmills, weather-vanes, miniature canoes, legends of Mother Hubbard.

Take the part-French, part-Indian, maker of the toy-canoe that so delights the hearts of little boys even when for lack of lake, river or sea in their neighborhood they are forced to sail it in the bath-tub, or just carry it to bed clasped in chubby arms, at night, as a sort of galleon whereon to sail away to the land of dreams, is there not in the canoe, a spirit of race? The French trait of "sculpteur," as the wood-carver calls himself down in Quebec, and the elemental knowledge and association of the canoe that in the Indian reaches back to prehistoric days in this great stretch of country that is Canada.

It would be difficult to say which side of him aids the other more, but it is true that in combination, he is something more of an artist than the United States or Mexico to the South, without such combination, can boast. A born toymaker. Someone who gets into the toy that present something which is of the spirit and of life, and which makes it art-products rather than a mere thing of wood. So fine in its lines that it is no mere substitute but a miniature of the larger canoe... the boat of a race. No less than the Viking ship or the gondola is the boat of a race and a people.

Did we see the artistry and human interest, not to speak of the nationality, the true Canadianism in such toys, we would select them and put them more in the hands of children than we do. Even in giving the purely mechanical toy to the child the youngster not having arrived at the age of mechanics proceeds to see the suggestion, the romance, the story, the association. As to with the "chu-chu" train, rather than the mechanism, the parts, which are far too small to interest the mind at that stage.

And when you happen upon the canoe-carver at work out-of-doors in one of those many quaint and historic villages along the St. Lawrence between Montreal and Quebec, his own child seated on the logs, one of the rough canoes in his little hand, how envious it makes you feel for the city child! For the toymaker and his carving is a plant of village growth. The big log still, as it were, touches the forest. And all these things, too, are in the tiny canoe over which the mind of childhood dreams.—Victoria Hayward.

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